FIG. 1

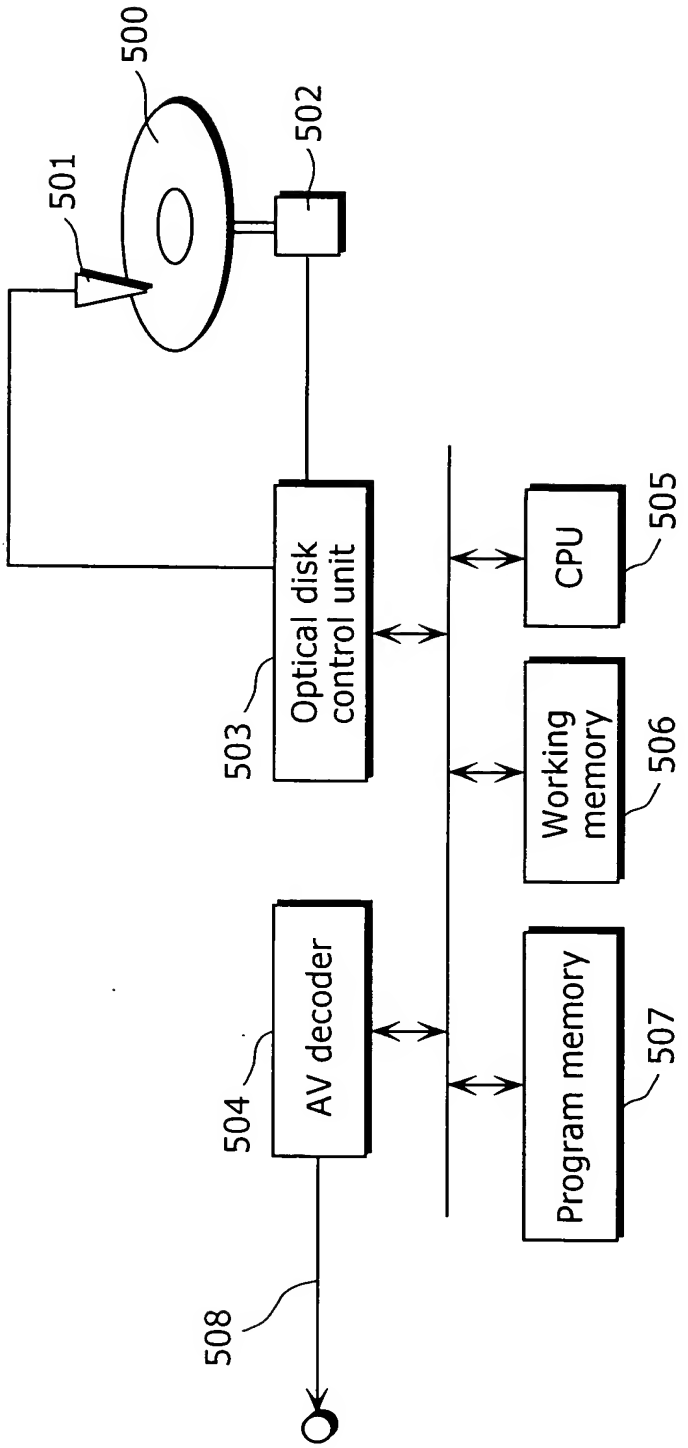

500
501
502
503
Optical disk control unit
504
AV decoder
505
CPU
506
Working memory
507
Program memory
508

FIG. 2

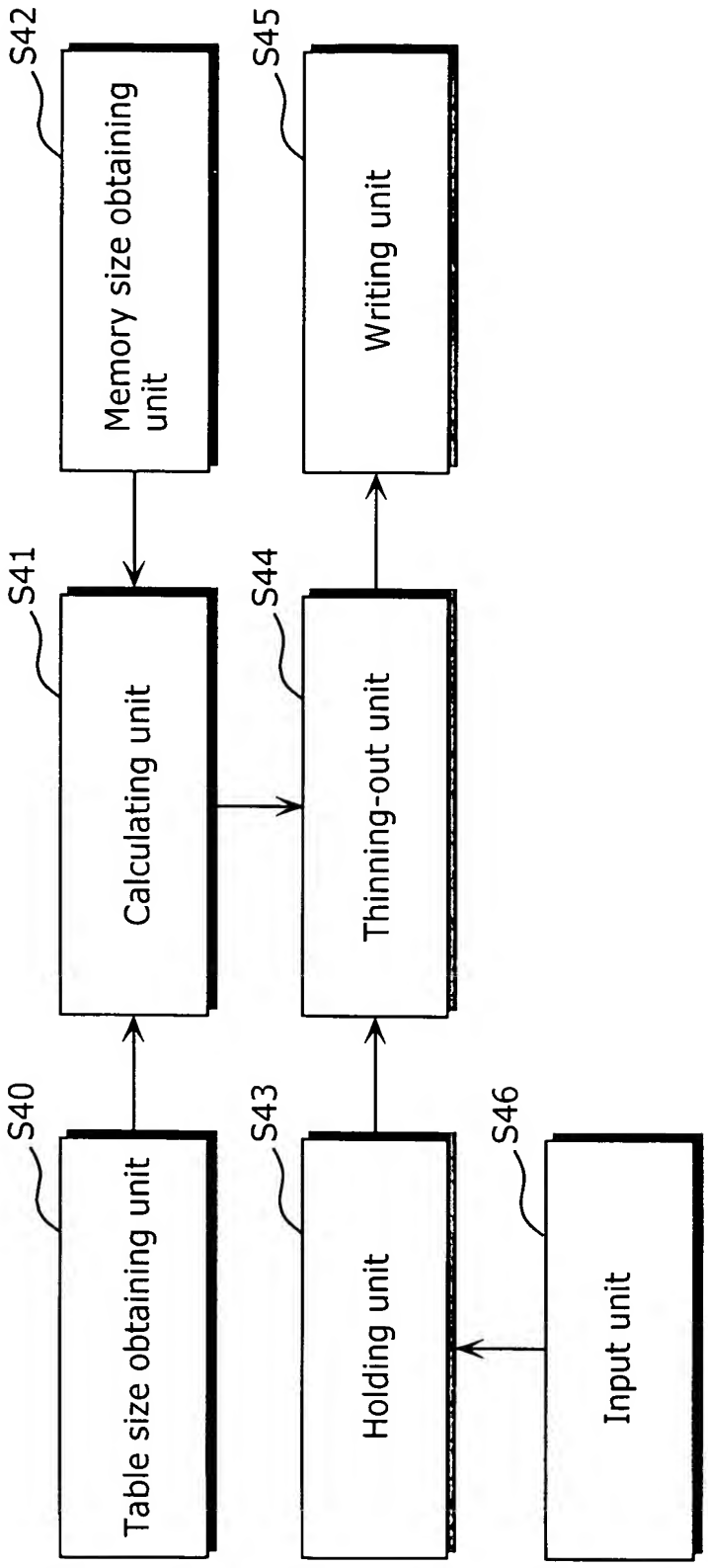

S42
Memory size obtaining unit
S45
Writing unit
S41
Calculating unit
S44
Thinning-out unit
S40
Table size obtaining unit
S43
Holding unit
S46
Input unit

FIG. 3

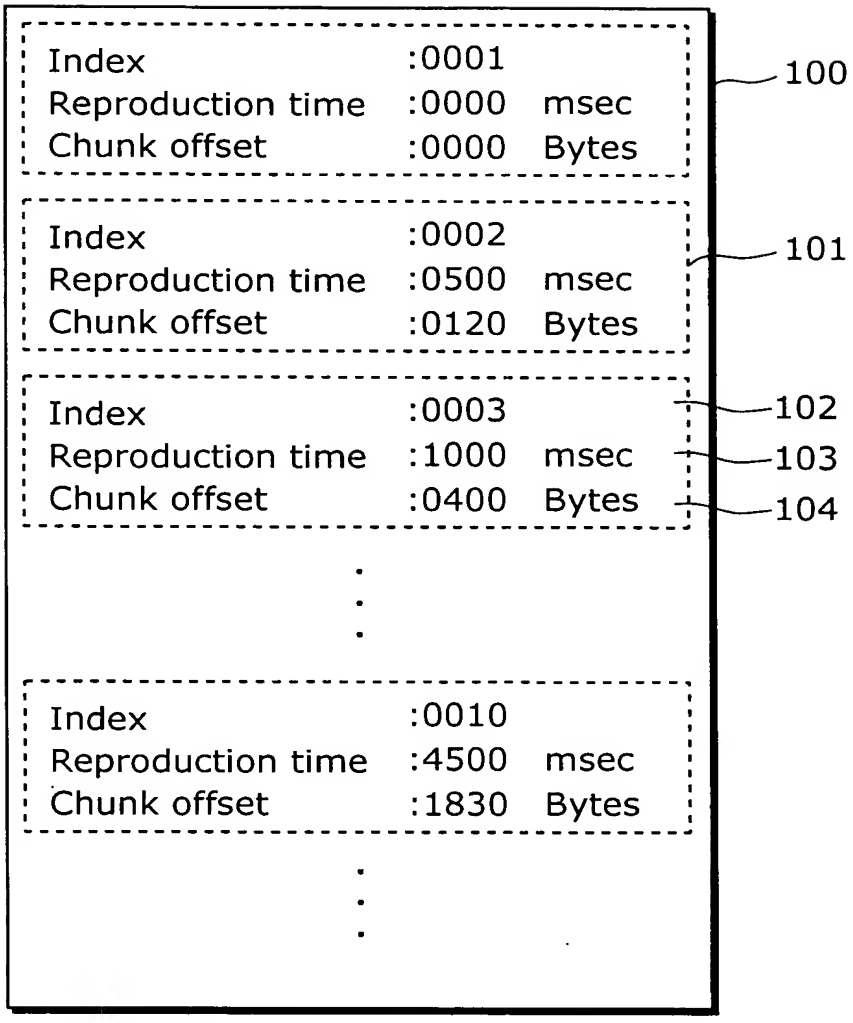

Index :0001
Reproduction time :0000 msec
Chunk offset :0000 Bytes
100
Index :0002
Reproduction time :0500 msec
Chunk offset :0120 Bytes
101
Index :0003
Reproduction time :1000 msec
Chunk offset :0400 Bytes
102
103
104
Index :0010
Reproduction time :4500 msec
Chunk offset :1830 Bytes

FIG. 4

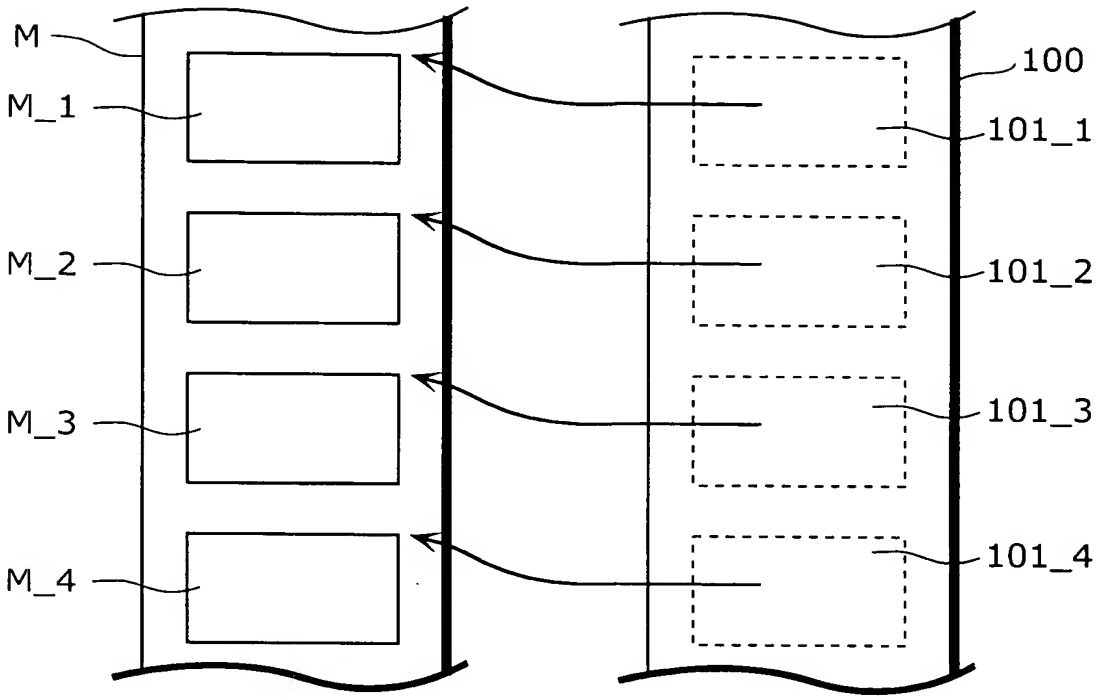



FIG. 5

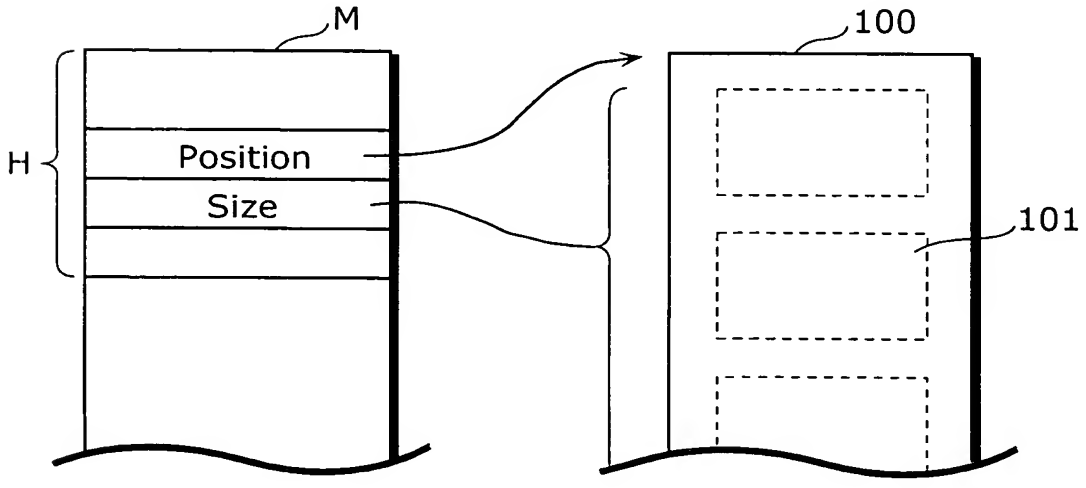


FIG. 6

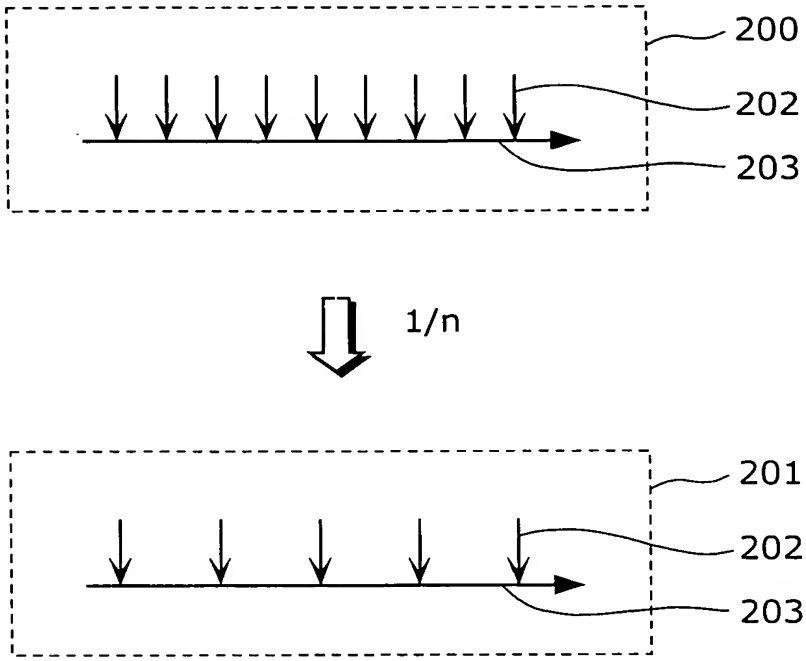

200
202
203
1/n
201
202
203

FIG. 7

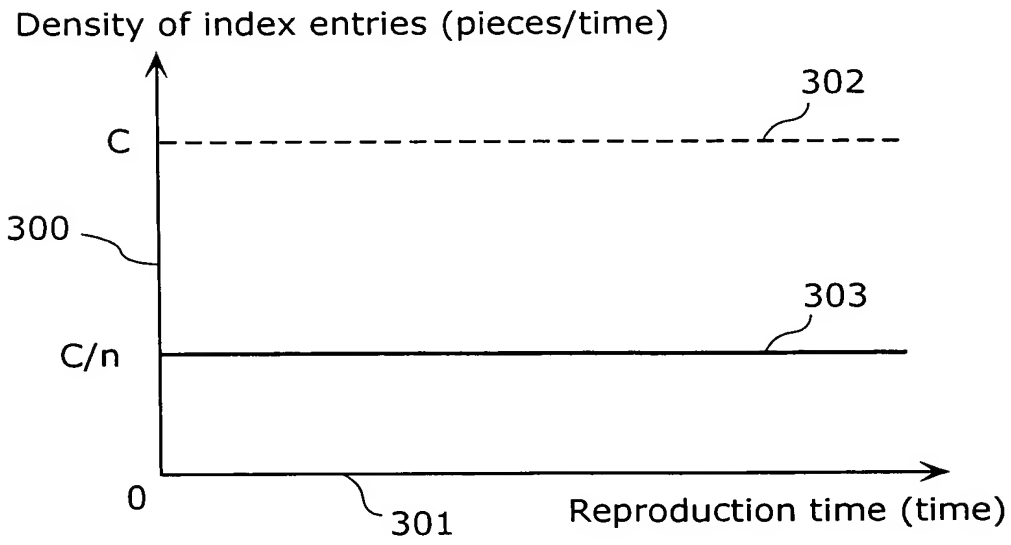

Density of index entries (pieces/time)
302
C
300
303
C/n
0
301
Reproduction time (time)

FIG. 8

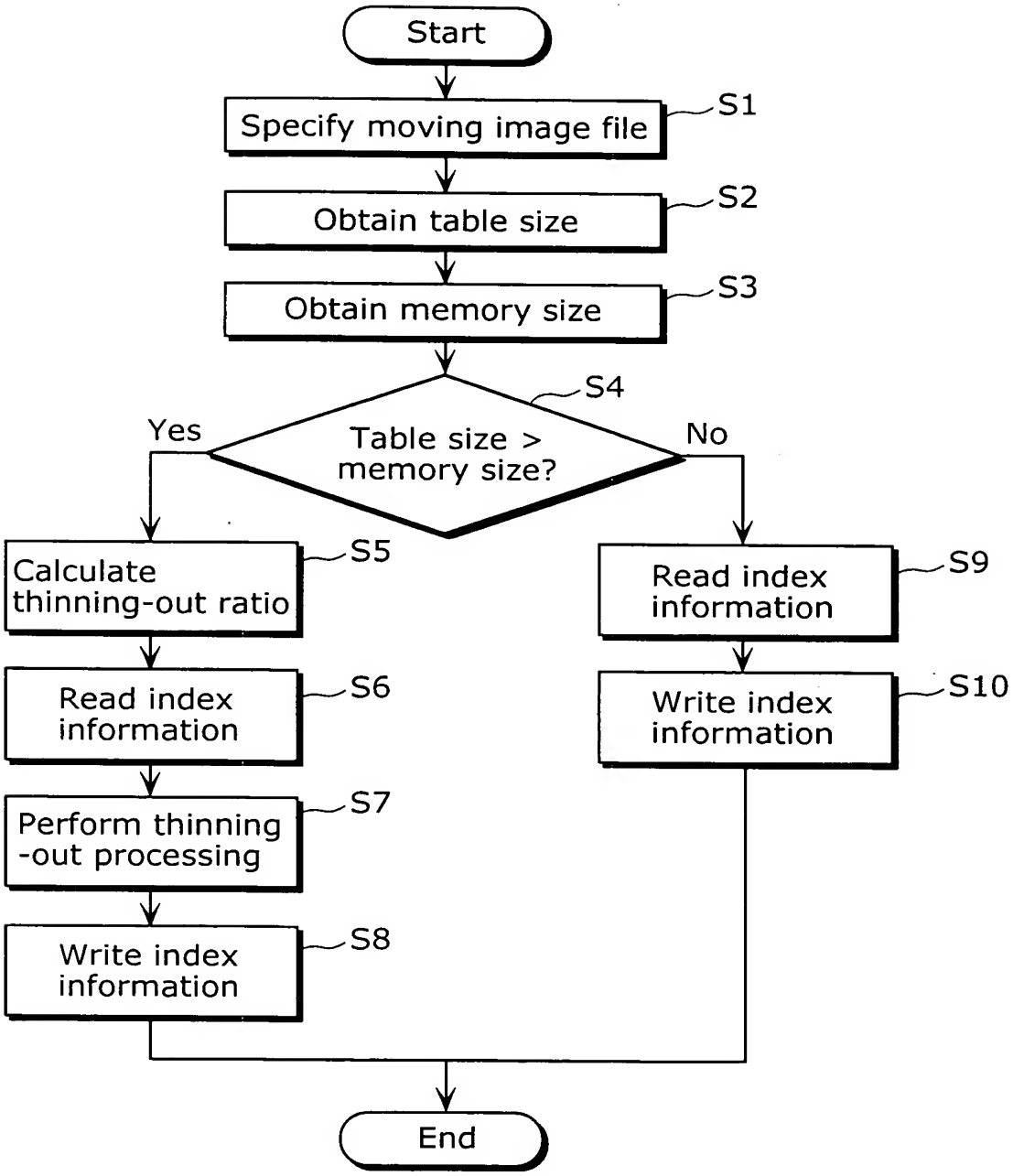

Start
Specify moving image file
S1
Obtain table size
S2
Obtain memory size
S3
S4
Table size > memory size?
Yes
No
Calculate thinning-out ratio
S5
Read index information
S6
Perform thinning -out processing
S7
Write index information
S8
Read index information
S9
Write index information
S10
End

FIG. 9A

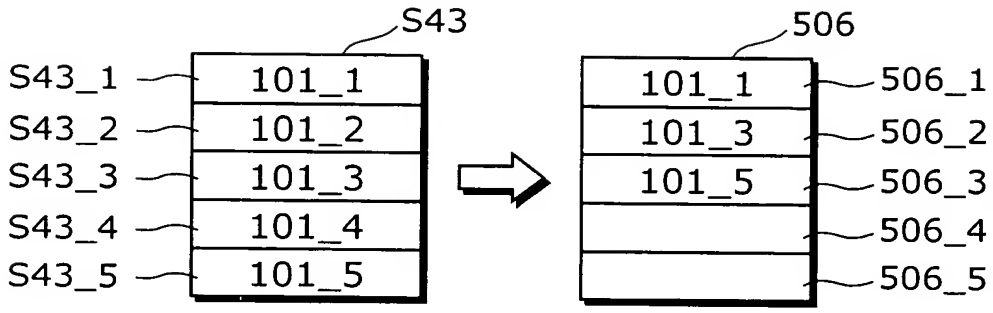

S43
S43_1
S43_2
S43_3
S43_4
S43_5
101_1
101_2
101_3
101_4
101_5
506
101_1
101_3
101_5
506_1
506_2
506_3
506_4
506_5

FIG. 9B

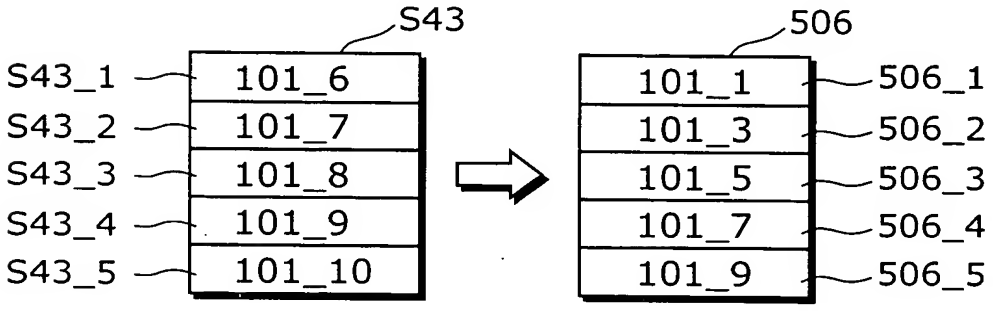

S43
S43_1
S43_2
S43_3
S43_4
S43_5
101_6
101_7
101_8
101_9
101_10
506
101_1
101_3
101_5
101_7
101_9
506_1
506_2
506_3
506_4
506_5

FIG. 10

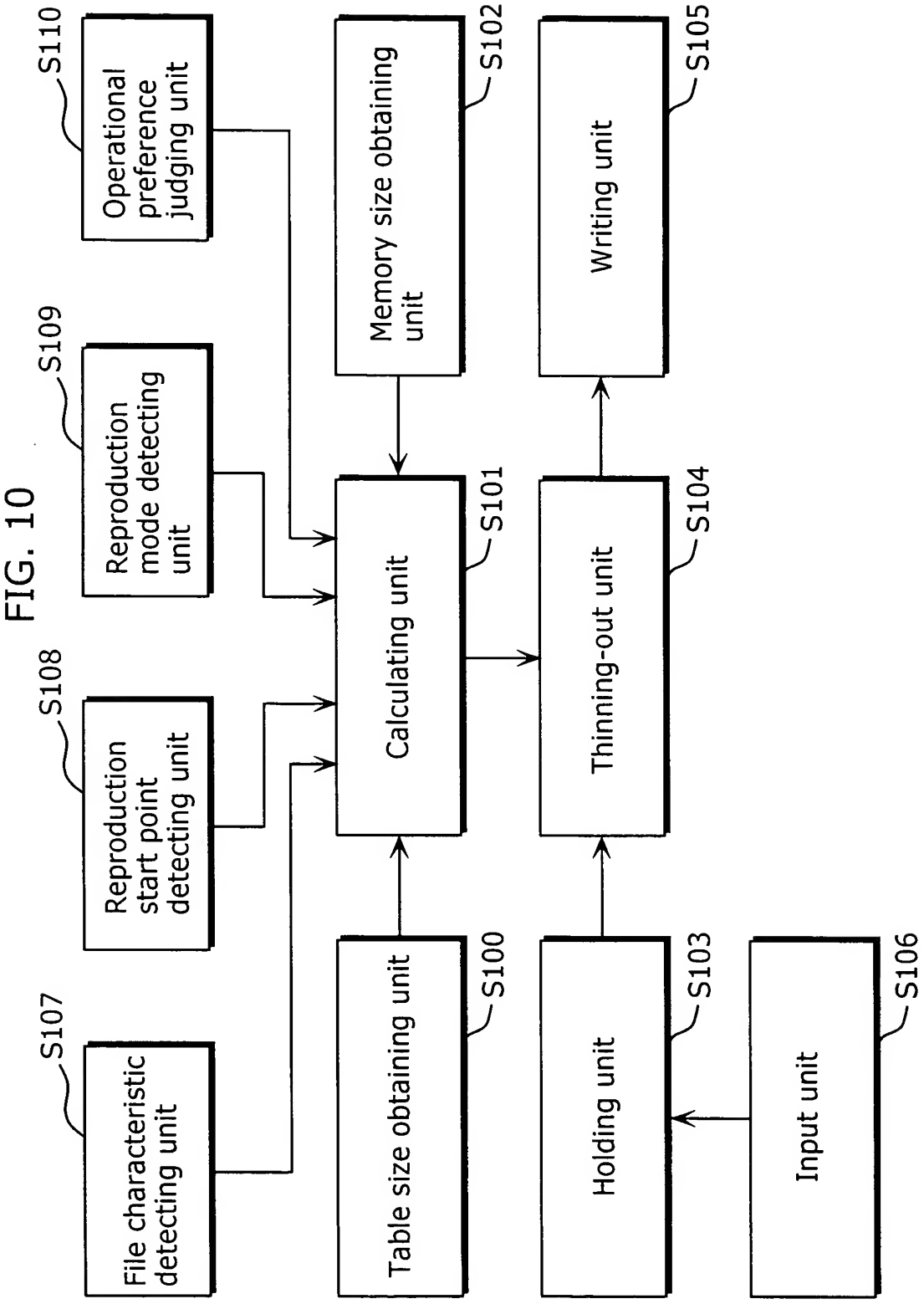

S110
Operational preference judging unit
S109
Reproduction mode detecting unit
S108
Reproduction start point detecting unit
S107
File characteristic detecting unit
S102
Memory size obtaining unit
S101
Calculating unit
S100
Table size obtaining unit
S105
Writing unit
S104
Thinning-out unit
S103
Holding unit
S106
Input unit

FIG. 11

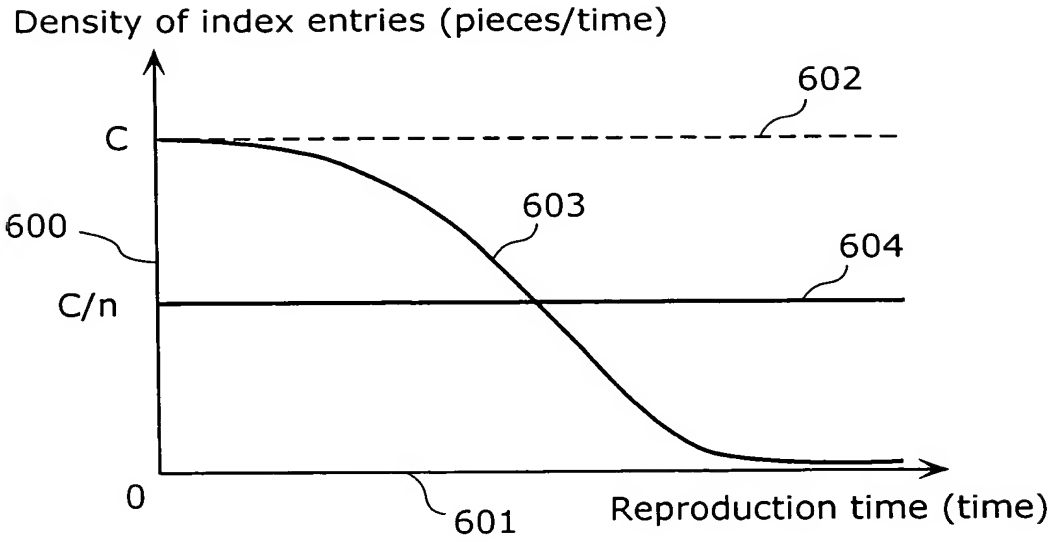

Density of index entries (pieces/time)
602
C
603
600
604
C/n
0
601
Reproduction time (time)

FIG. 12

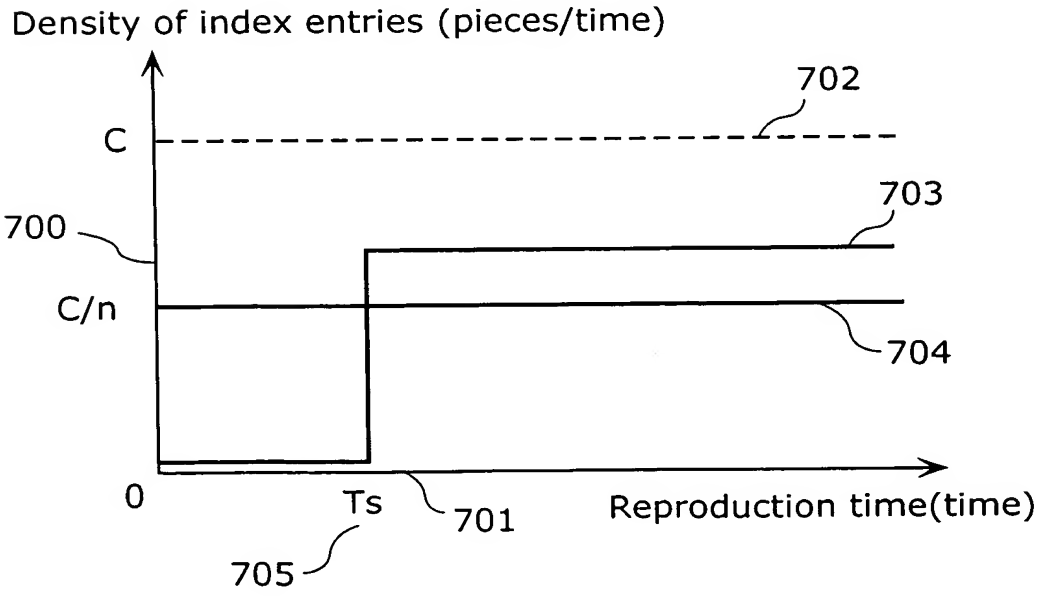

Density of index entries (pieces/time)
702
C
703
700
C/n
704
0
Ts
701
Reproduction time(time)
705

FIG. 13

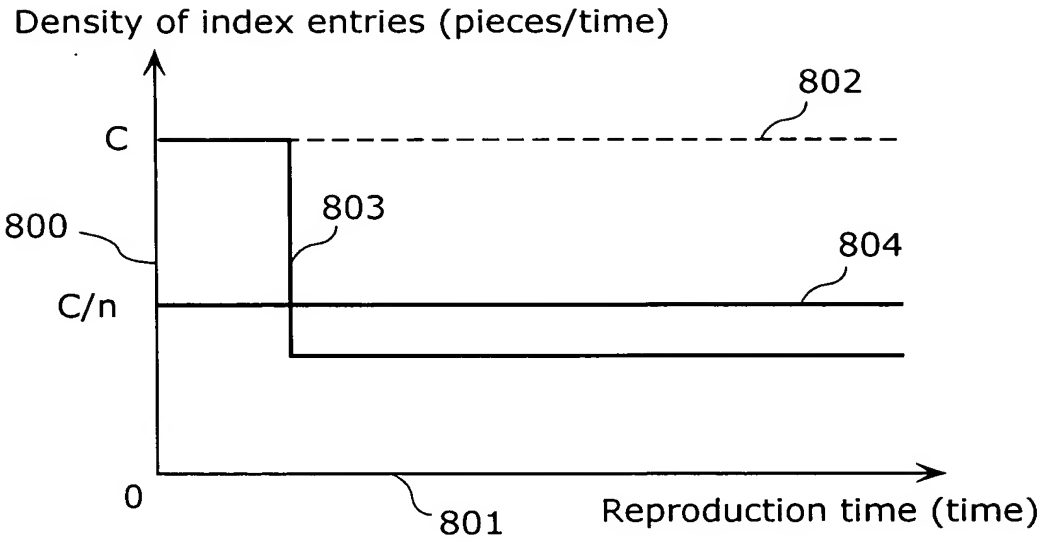

Density of index entries (pieces/time)
802
C
803
800
804
C/n
0
801
Reproduction time (time)

FIG. 14

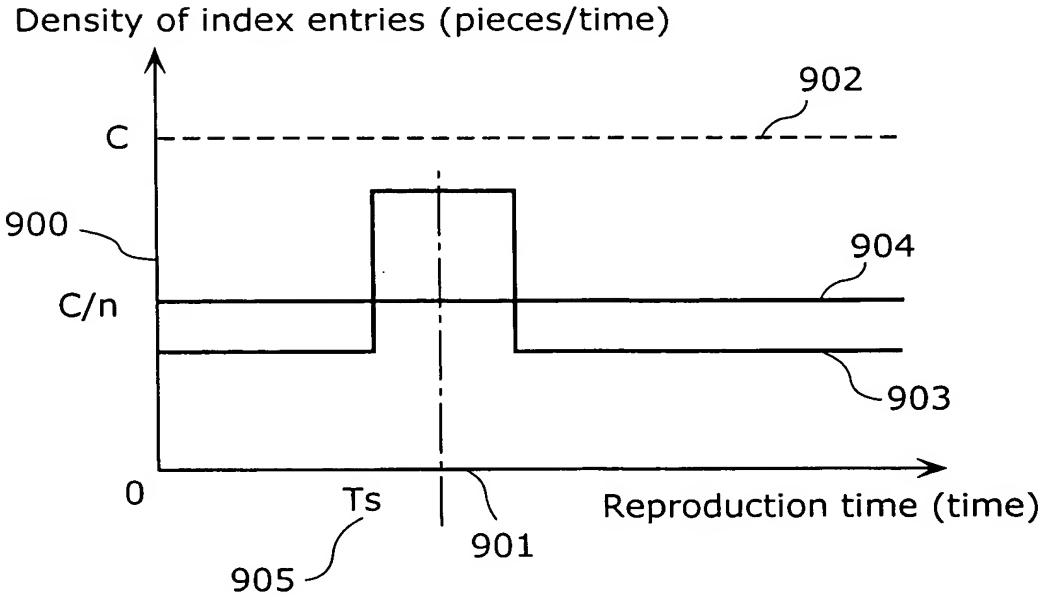

Density of index entries (pieces/time)
902
C
900
904
C/n
903
0
Ts
Reproduction time (time)
901
905

FIG. 15

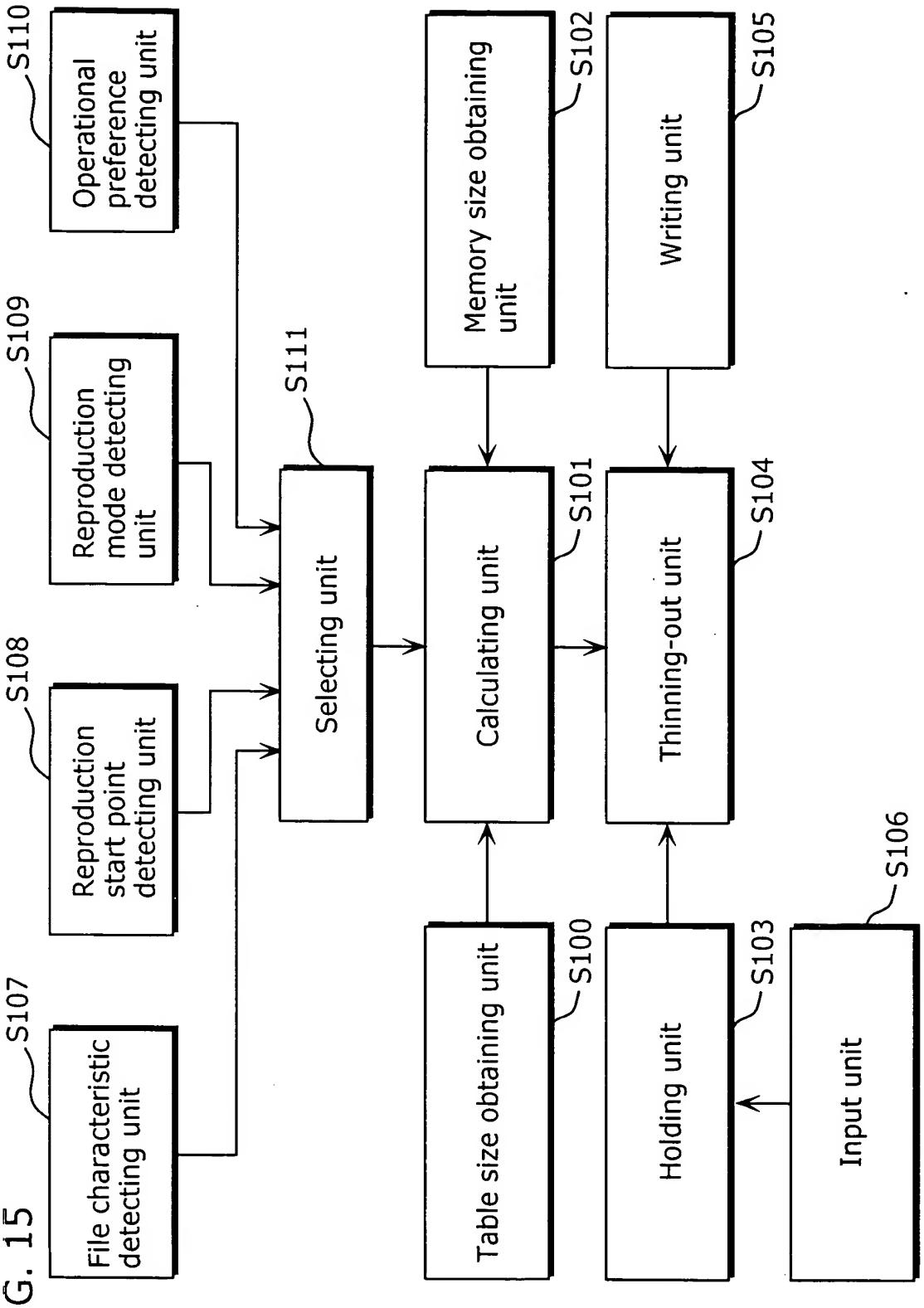

Operational preference detecting unit
S110
Reproduction mode detecting unit
S109
Reproduction start point detecting unit
S108
File characteristic detecting unit
S107
Selecting unit
S111
Memory size obtaining unit
S102
Writing unit
S105
Calculating unit
S101
Thinning-out unit
S104
Table size obtaining unit
S100
Holding unit
S103
Input unit
S106

FIG. 16

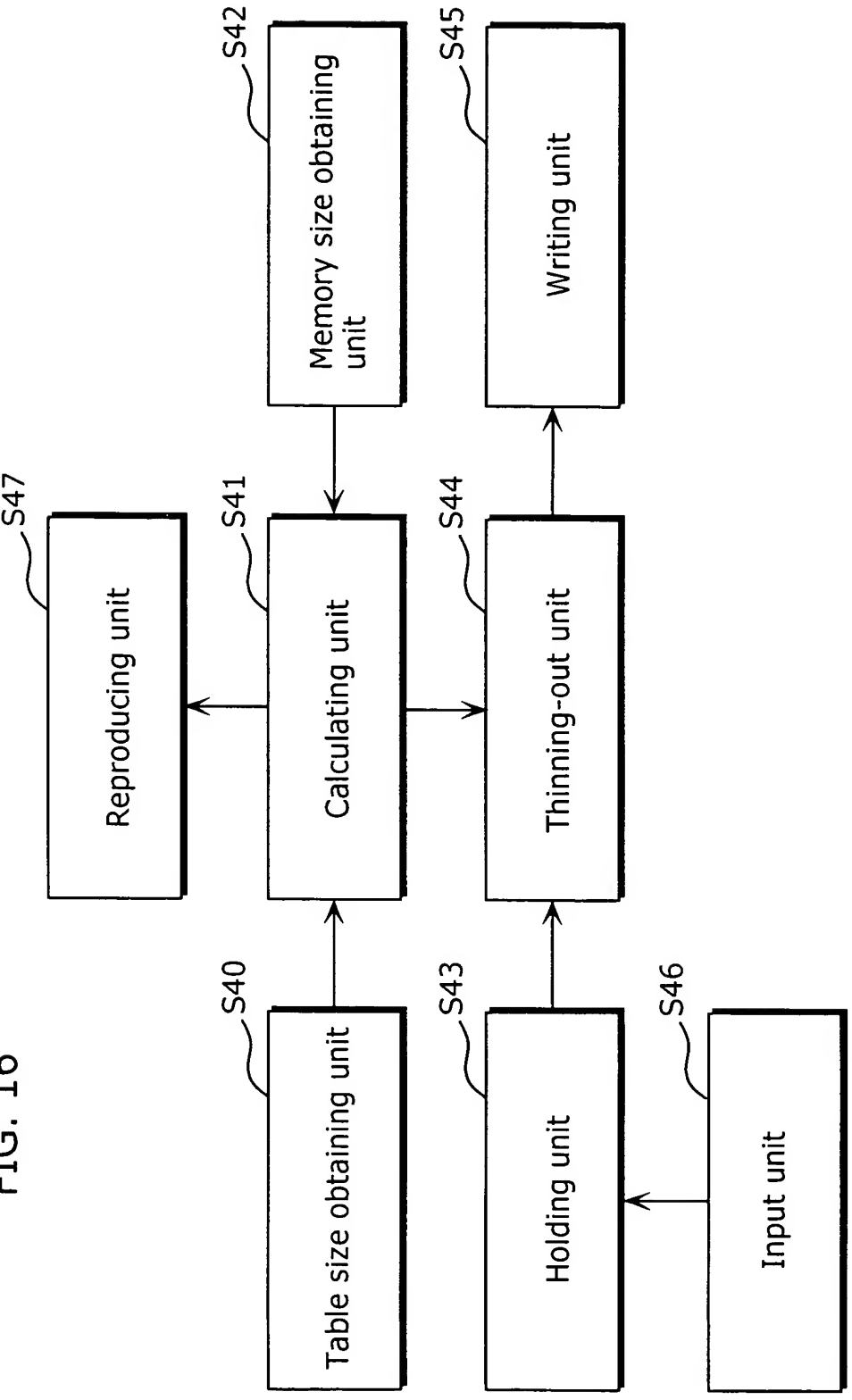

S42
Memory size obtaining unit
S45
Writing unit
S47
Reproducing unit
S41
Calculating unit
S44
Thinning-out unit
S40
Table size obtaining unit
S43
Holding unit
S46
Input unit

FIG. 17

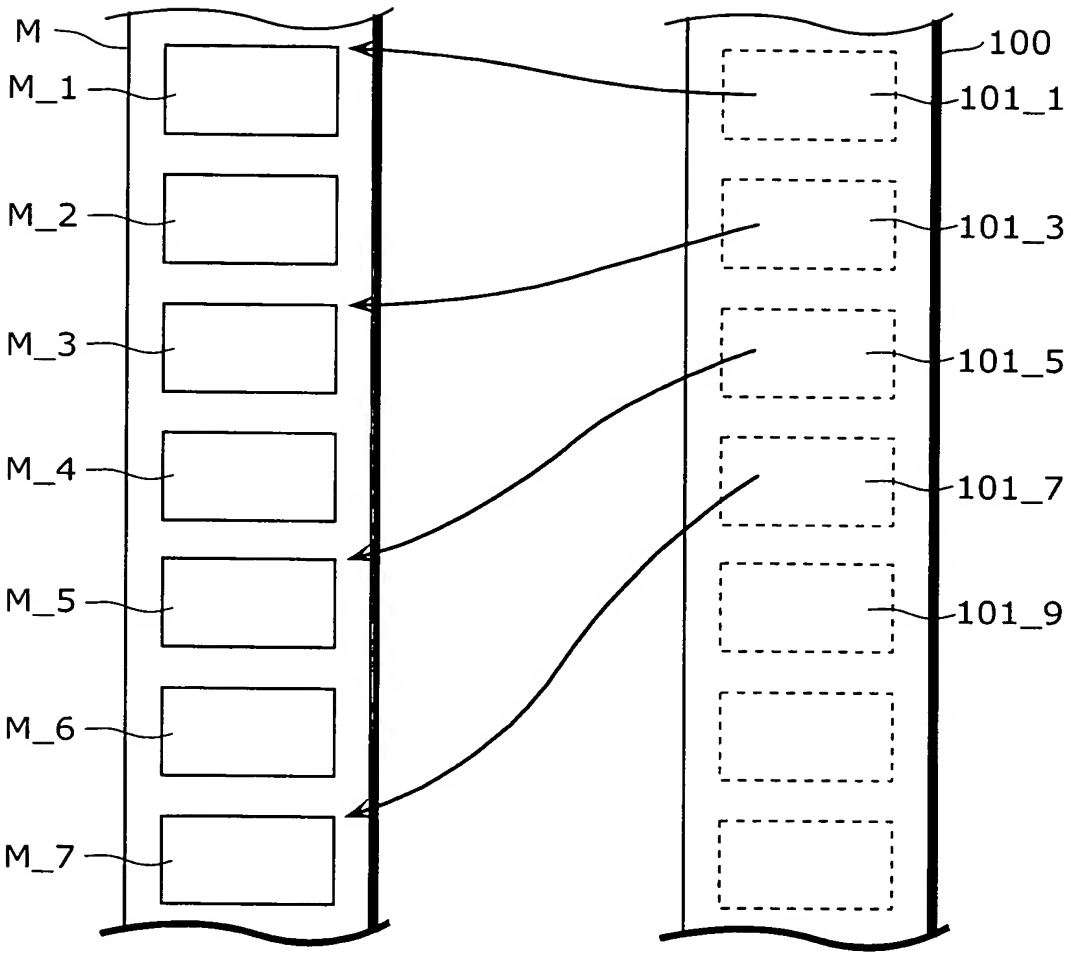
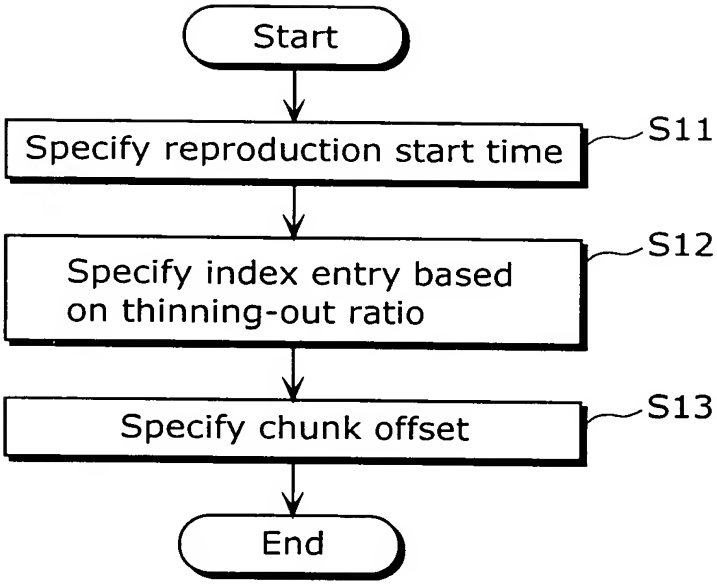


FIG. 18


Start
Specify reproduction start time
S11
Specify index entry based on thinning-out ratio
S12
Specify chunk offset
S13
End